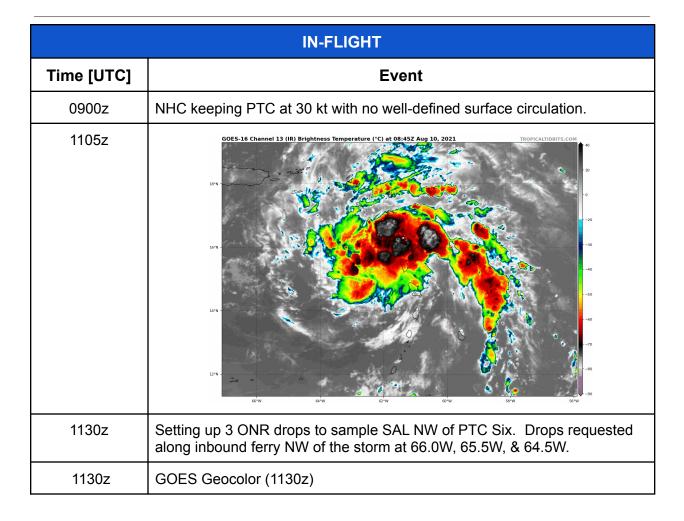
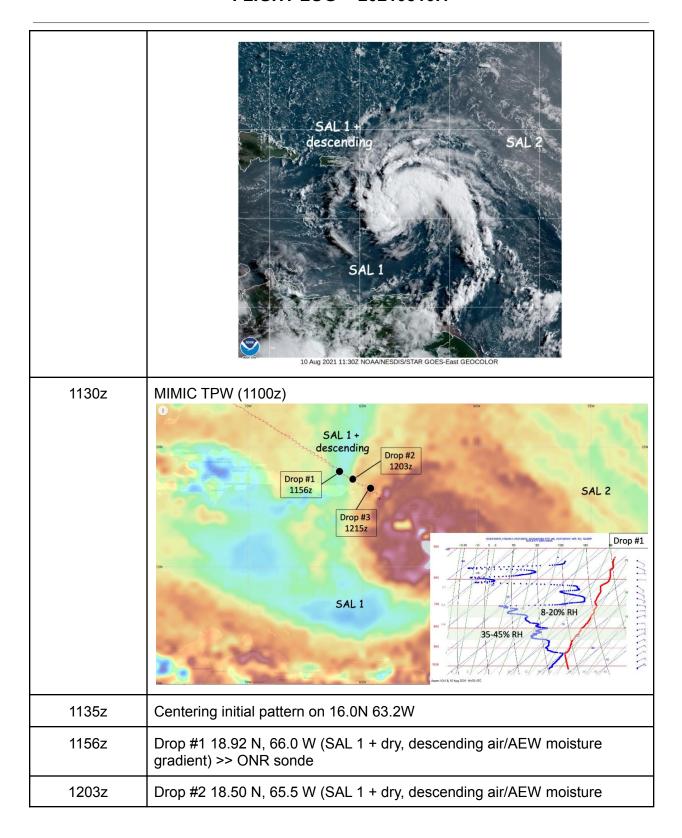
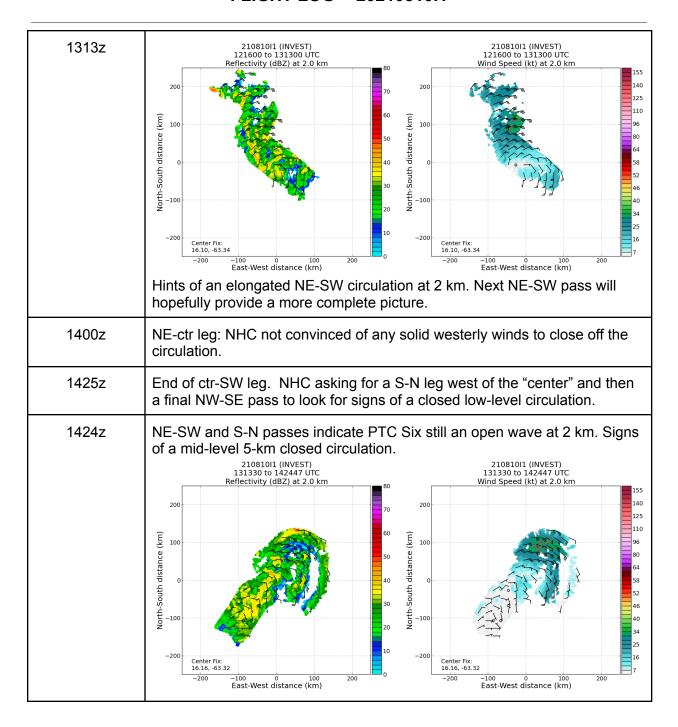
MISSION PLAN				
FLIGHT ID	20210810I1	STORM	AL06	
MISSION ID	0106A	TAIL NUMBER	NOAA43	
TASKING	NHC	PLANNED PATTERN	Alpha+box pattern	
MISSION SUMMARY				
TAKEOFF [UTC]	0839	LANDING [UTC]	1645	
TAKEOFF LOCATION	Lakeland	LANDING LOCATION	Aruba	
FLIGHT TIME	6.6	BLOCK TIME		
TOTAL REAL-TIME RADAR ANALYSES (Transmitted)	3 (3)	TOTAL DROPSONDES (Good/Transmitted)	3/3	
OCEAN EXPENDABLES (Type)	N/A	sUAS (Type)	N/A	
APHEX EXPERIMENTS / MODULES		N/A		
HRD CREW MANIFEST				
LPS ONBOARD	Marks	LPS GROUND	Dunion	
TDR ONBOARD	Marks	TDR GROUND	Reasor	
ASPEN ONBOARD	Wadler	ASPEN GROUND	N/A	
NESDIS SCIENTISTS	Chang, Jelenak			
GUESTS (Affiliation)	N/A			
	AOC CREW	MANIFEST		
PILOTS		Abitbol		
NAVIGATOR				
FLIGHT ENGINEERS				
FLIGHT DIRECTOR	Lundry			
DATA TECHNICIAN	Richards			
AVAPS				

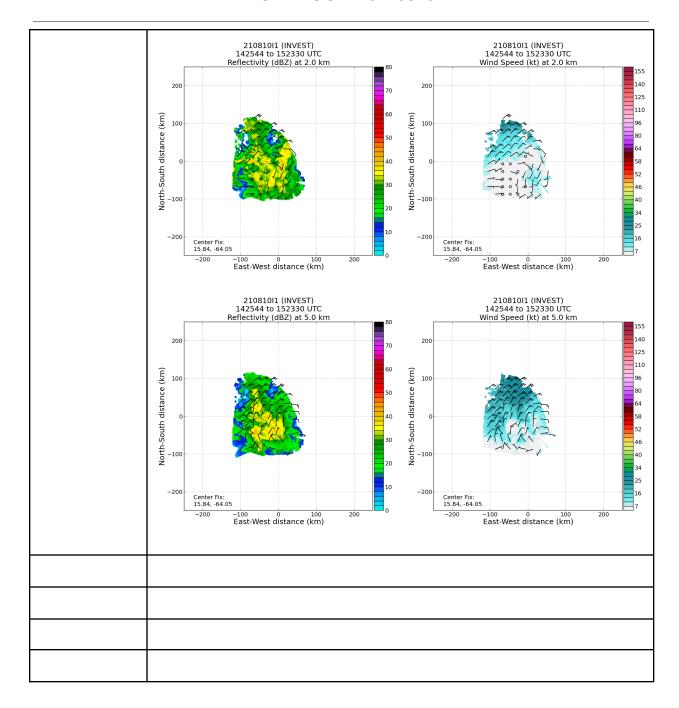
PRE-FLIGHT		
Flight Plan	NHC alpha pattern followed by a box pattern or additional legs to attempt to close of a low-level circulation (if none was found during the initial alpha)	
Expendable Distribution	Dropsondes released at the center center of each pass if a well-defined circulation is found. 3 additional sondes during the ferry to the IP to sample gradients associated with the SAL.	
Preflight Weather Briefing	[Notes from the Flight Crew Preflight Briefing and other relevant notes about the current and forecasted storm state for the flight]	
Instrument Notes	No microphysics probes onboard 43. All other instruments operating normally.	





	gradient) >> ONR sonde
1215z	Drop #3 18.01 N, 64.5 W (SAL 1 + dry, descending air/AEW moisture gradient) >> ONR sonde. Launched from ~14kft during descent to pattern FL (1500 ft)
1230z	N43 picking through multiple outer bands N of center approaching IP N of "center"
1243z	Inbound N-ctr leg bowing out west to avoid band convection- will have to then bow back to the SE to overfly the "center"
1248z	Climbing to 2500 ft before crossing large convective band N of estimated center





POST-FLIGHT		
Mission	Successful NHC invest mission. 3 tail Doppler radar analyses were also	

Summary	transmitted off the aircraft and 3 GPS dropsondes were transmitted to the GTS. PTC Six maintained its 30 kt intensity during the mission and TDR		
	data indicated that the vortex was elongated SW-NE at 2 km and perhaps closed at 5 km. NHC mentioned in their 15z advisory the use of NOAA-43's observations to determine that PTC Six did not yet have a well-defined closed circulation, that wind and pressure fields more resembling an open wave, and that the intensity remained at 30 kt.		
	Due to weather hazard avoidance and proximity to land, the planned pattern had to be modified slightly. 3 dropsondes were deployed to support ONR TCRI research and 3 were transmitted to the GTS (all sondes were charged to ONR).		
Actual Standard Pattern Flown	Alpha pattern plus additional legs to investigate the environment of Potential Tropical Cyclone Six. The pattern was distorted due to the need to avoid convection and increase the flight level to maintain safety.		
APHEX Experiments / Modules Flown	N/A		
Plain Language Summary	 The NOAA P-3 flew this mission to investigate <i>Potential Tropical Cyclone Six</i> and determine if the disturbance had developed into a tropical cyclone. The P-3 did not observe a well-developed low-level circulation in <i>Potential Tropical Cyclone Six</i> and therefore NHC did not upgrade the storm to a tropical cyclone. 		
Instrument Notes	The cloud microphysics package was not installed on the P-3 for this mission. All other aircraft instruments operated nominally.		

